APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Comparison of the Possibilities for Eliminating the Effects of Thrid Elements with Pulsed Discharges and Lasers, by V. V.Panteleyev. 6 pp. RUSSIAN, per, Zh Prik Spek, Vol 9, No 6, 1968, pp 923-927.
NASA TT F-12,695

Sci-Phys
Feb 70 401,694

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Request translation check 5-8-10 BTby-11-805T

Use of interference to obtain unpolarized and single-frequency gas laser emission

V V Gruzinskiy, et al

Zhurnal prikladnoy spektroskopii, v 9, nr 6, 1968, 959-63

In press as
HT Special 500-69.

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

A. P. Veduta

Distribution of Temperature and Population in Ruby Laser Rods During Pumping.
RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii,
Vol 9, 1968, pp 964-968
NTC 72-13288-20E
IN PROCESS AT SPECIAL SOO 69
BT 69-11-801T

sept 72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

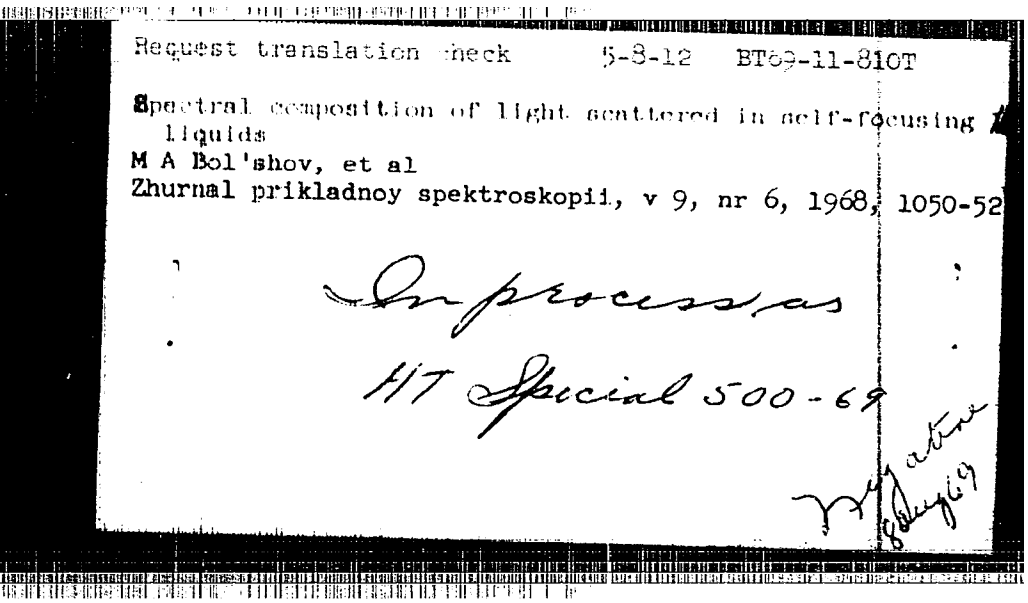
Propagation of a Light Pulse ina Semi-
Infinito Isotropically Scattering Medium,
by I. L. Katsev.
RUSSIAN, per, Zh Prikl Spekt, Vol 9, No 6,
1968, pp 969-976.
CIA X-6942

Mar 69

378,040

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9



Request translation check 5-8-12 BT69-11-810T

Spectral composition of light scattered in self-focusing liquids
M A Bol'shov, et al
Zhurnal prikladnoy spektroskopii, v 9, nr 6, 1968, 1050-52

In process as
AFT Special 500-69

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Miniature High-Speed Spectrometer for the 1.5-6u Infrared Range, by V. K. Goncharov. RUSSIAN, per, Zh Prikl Spekt, Vol 9, No 6, 1968, pp 1065-1069.
CIA X-6951

Mar 69

378/049

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Impact Ionization and the Tunneling Effect During Electroluminescence of Zinc Sulfide, by L. A. Kosyachenko.
RUSSIAN, per, Zhurnal Prik Spek Akad Nauk Bel SSR, Vol 9, Nov 1968, pp 830-836.
NASA TT F-12,405

Sci-Phys
Oct 69

392,938

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Infrared METhod for Determining Trace Impurities of Moisture in Isoprene, by Ye. G. Gatilova, RUSSIAN, per, Zh. Prikl. Spektrosk. Vol 10, No 1, 1969, pp 98-102.
FTD HT Special 59-70

mar 70

404,482

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Propagation of Modulated Light Radiation in a Semi-Infinite Isotropic Scattering Medium, by I. L. Katsev.
RUSSIAN, per, Zh Prik Spektr, Vol 10, No 1, 1969, pp 120-125.
CIA X-7075

NTC-6-9-15450-20F

Aug 69

389,416

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Effective Absorption Cross-Section of Ultraviolet Radiation by Molecular Oxygen at 3000-10000°K Temperatures, by S. A. Losev.
RUSSIAN, per. Zh Prik Spekt, Vol 10, No 2, 1969, pp 229-232.
CIA X-7015

May 69

382,305

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Residence Time of Particles Blown Into Spark Discharge Plasma in Excitation Zone, by A. M. Oleynik.
RUSSIAN, par, Zhurnal Prikladnoy Spektroskopiy,
Vol 10, No 2, 1969, pp 315-317.
FTD HT Special 257-70

Sci-Phys
Sep 70

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Atmospheric Air Gas Laser, by Ye. N. Bazarev
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 10, No 2, 1969, pp 324-325.
FTD HT Special 499-69

oct 69 395,312

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

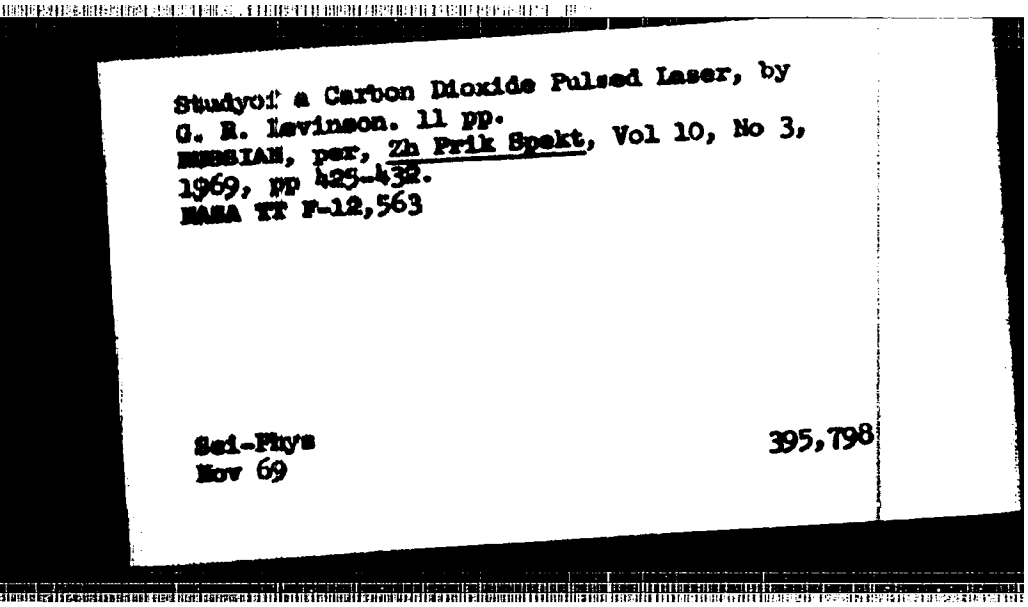
APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Electronic Spectra of Rare-Earth Metal Fluorides, Oxyfluorides and Oxides, by S. S. Batsanov.
RUSSIAN, per, Zh Prik Spekt, Vol 10, No 2, 1969, pp 332-336.
CIA X-7014

May 69 382,304

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9



Study of a Carbon Dioxide Pulsed Laser, by
G. R. Levinson. 11 pp.
RUSSIAN, per, Zh Prik Spekt, Vol 10, No 3,
1969, pp 425-432.
NASA TT F-12,563

Sci-Phys
Nov 69

395,798

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

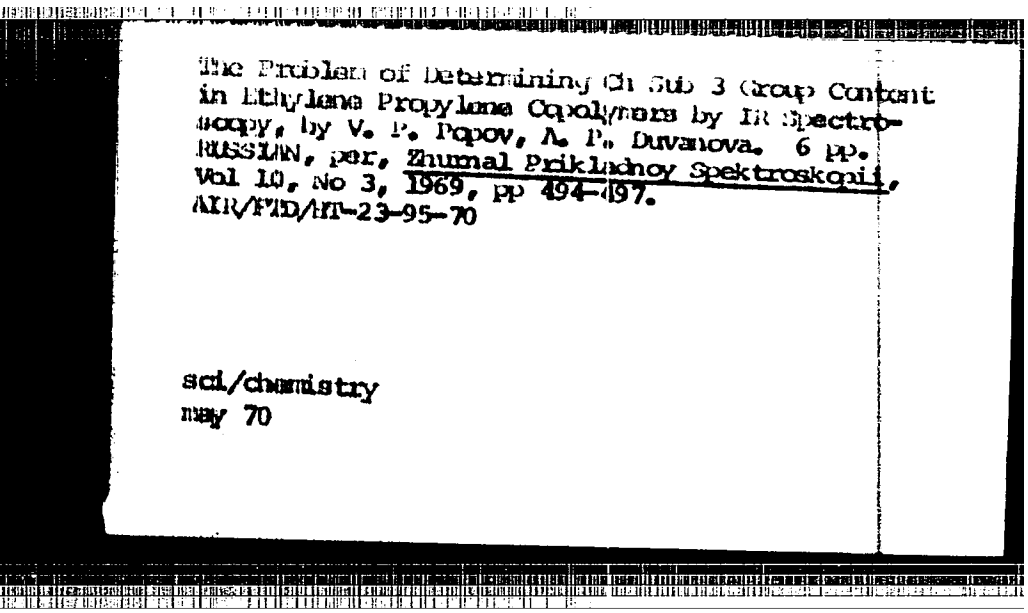
APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Development Time and Spectral Width of a Single Pulse From a Laser With a Saturable Adsorber, by L. A. Kotomtseva, A. M. Samson.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii, Vol 10, No 3, 1969, pp 443-448.
FTD HT Special 533-69

393,139

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9



The Problem of Determining CH Sub 3 Group Content in Ethylene Propylene Copolymers by IR Spectroscopy, by V. P. Popov, A. P. Duvanova. 6 pp. RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii, Vol 10, No 3, 1969, pp 494-497. AIR/FTD/HT-23-95-70

scl/chemistry
may 70

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Effect of Para-Substitutes on Infrared Spectrum of Benzosulfanilide, by V. L. Levashova.
RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii, Vol 10, 1969, pp 502-506.
NTC 72-11129-07C

May 72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

K. K. Pryadkin

Electrodeless discharge in xenon at pressures to 40 atmospheres. 7 pp RUSSIAN, Zhurnal Prikladnoy Spektroskopii, Vo. 10, No. 5, 1969, pp. 721-724. AIR/FTD-HT-23-839-72

In process as 72-23-0839

Dec 72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Spectroanalytic Characteristics of Plasma Obtained Using a Laser in the Regular and Quasi-stationary Generation Modes, by
V. V. ZHukovskiy, 11 pp.
RUSSIAN, per, Zh Prik Spekt: Akad Nauk BSSR,
Vol 11, No 1, 1969, pp 13-19.
NASA TT F-13,044

Sci-Phys
Sep 70

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Propagation of Light Beams in Inhomogeneous Anisotropic Media..
By N. A. Gusak, A. M. Goncharenko
RUSSIAN, per, Zh. Prikl. Spektr. Vol. 11, No. 2, 1969, pp. 237-241
CIA X-7126

Dec 69

397,481

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Working Level Populations in an Argon Laser, by
F. A. Korolev, A. I. Odintsov, et al.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy,
Vol 11, No 2, 1969, pp 351-354.
FTD HT Special 359-70

Sci-Mat
Dec 70

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Destruction of Graphite in a Low-temperature Air Plasma Flow.
By A. B. Karasev, T. V. Kondranin
RUSSIAN, per, Zh. Prikl. Spektr., Vol. 11, No. 3, 1969, pp. 403-407.
CIA X-7148

Dec 69

398,814

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

N. I. Yushchenkova

Chemical and Vibrational Relaxation in Supersonic Carbon Dioxide Flows.
RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii, Vol 11, 1969, pp 417-424.
NTC 72-13995-20I

Nov 72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

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N71-12049* # Translation Consultants Ltd Arlington Va

SOME CHARACTERISTICS OF THE LASER BEAM EROSION OF MATERIALS [NEKOTORYYE OSOBENNOSTI EROZII MATERIALOV PRI VOZDEYSTVII IZLUCHENIYA OKG]

G I Putrenko et al Washington NASA Dec 1970 10 p refs Transl into ENGLISH from Zh Prikl Spektroskopii Akad Nauk Belorussk SSR (Minsk) v 11, no 4 Oct 1969 p 617 622
(Contract NASw-2038)
(NASA-TT-F-13338) Avail NTIS CSCL 20E

Space distribution of condensed matter ejected from metals subjected to laser radiation erosion was investigated to improve spectral analysis sources with simultaneous use of electrical discharge Laser pulse energy was 7 j and the light was coned by means of a lens Angular distribution of matter ejected was measured for Cu alloys Zn, Fe, Fe Si Pb, Sn Al Mg and W condensed on a glass plate situated perpendicularly to the laser beam Maximum density of the condensed material and the angular position of this maximum were plotted as a function of the melting point of the material Chemical composition of the sample corresponds to that of the ejected material An arrangement of electrodes for spectral analysis carried out during simultaneous laser function and discharge was proposed Author

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Strong High - Frequency Discharge of a Toroidal Form, by A. I. Akishin.
RUSSIAN, per. Zhurnal Prikladnoi Spektroskopii, vol. 11, no. 4, 1969, pp. 724-725.
NTC 71-10919-20F

August 71

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Infrared Radiation of a Discharge Applicable to a Carbon Dioxide Laser, by Ye. N. Lotkova, V. N. Ochkin.
RUSSIAN, per, Zhurnal Prikladnoy Spektrosk, Vol 11, No 4, 1969, pp 739-741.
FTD HT Special 258-70

Sci-Phys
Sep 70

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

REQ TR CHECK 29-3-29 TA73

METHODS FOR CONCENTRATING AND ELIMINATING THE EFFECT OF THIRD COMPONENTS DURING CHEMICAL SPECTROGRAPHIC DETERMINATIONS
ZHIVOPISTSEV V P; MAKHNEV YU A
UR: ZHURNAL PRIKLADNOY SPEKTROSKOPII, 1969, vol 11, nr 5, pp 779-782

AF 5-23-11-0620 Signature 16 Apr 71

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Competition of rotational transitions in a carbon dioxide laser, by V. P. Kabashnikov. RUSSIAN, per, Zhurnal Prikl. Spektrosk, Vol 11, No 5, 1969, pp 805-811
FTD HT Special 324-70

sci
nov 70

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Method for Calculating the Population and the Excitation Rates of the Working Levels in a Co2 Laser, by P. A. Bykov.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy, Vol 11, July 1969, pp 30-34.
FTD HT Special 198-70

Sci-Phys
Jul 70

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Efficieny oE Neodymium-activated Glass Laser as a Function of Active and Inactive Absorption by the Glass, by I. M. Buzhinskiy.
RUSSIAN, per, Zhurnal Prik Spektroskopiy, Vol 11, July 1969, pp 67-72.
FTD HT Special 211-70

Sci-Phys
Jul 70

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Chemical and Vibrational Relaxation in Supersonic Carbon Dioxide Flows, by N. F. Yurchenkova, et al.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy, Vol 11, No 9, 1969, pp 417-424.
*NASA TT F 12,922

sci.astron
apr 70

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

A Study on the Mechanism of the Discharge
From a Hot Hollow Cathode II,
by O.P. Semenova and T.M. Gorbunova
RUSSIAN, per. Zh. Prikl Spectrosk,
Vol. 11, pp. 487-492 (Sept. 1969)
O.A./Trans.- 1050

FEB 71

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

The Multilayered "Black Mirror", by M. M. Koltun.
RUSSIAN, par, Zhurnal Prikladnoy Spektroskopii, Vol 12,
Feb 1970, pp 350-352. 8/p
NASA TT F 14,183
FTD-HS-23-71-0621

apr 71

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

The Problem of Attenuation of Laser Radiation in the Atmosphere, by Iu. P. Safronov, et al.
RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii, Vol. 12, Mar 1970, pp 450-454.
NASA TT F-14,081

Mar 72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

The Possibility of Designing a CO2 Laser With Electron Beam Pumping.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy, April 1970.
DIA LN 1099-71

Oct 71

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Amplification of a Wide-Spectrum Signal by a Laser Amplified, by Yu. I. Chekalinskaya. RUSSIAN, per, Zh Prik Spektros, No 12, 1970, pp 657-667.
*AEC/CTO-791

Oct 71

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Sensitivity of the Luminescence of Polymers to Oxygen and Polymer Oxygen Permeability, by I. A. Zakharov
RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii, Vol 12, No 4, 1970, pp 703-706
NTC 71-16770-07D

Feb 72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

G. G. Dolgov-Savelev

On the Possibility of Producing a CO_2 Laser with a Pumped Electron Beam.
RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii,
Vol 12, 1970, pp 737-739.
NTC 72-13689-20E

IN PROCESS HT SPECIAL 71-107

Nov 72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Some Principles of Removal of Material From Metals Under the Action of Laser Radiation, by A. I. Korunchikov. 30 pp.
RUSSIAN, par, Zh. Prikl. Spektrosk, Vol 12, No 5, May 1970, pp 819-823.
NASA-TT-F-11912

July 71

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Difference Frequency Generation by Nonlinear Optics Methods, by S. G. Karpenko. 15pp
RUSSIAN, per, Zh Prikladnoy Spek, Vol 12, No 5, 1970, pp 861-867.
NASA-TT-F-13,979
NTC 72-13348-20E

Oct 71

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

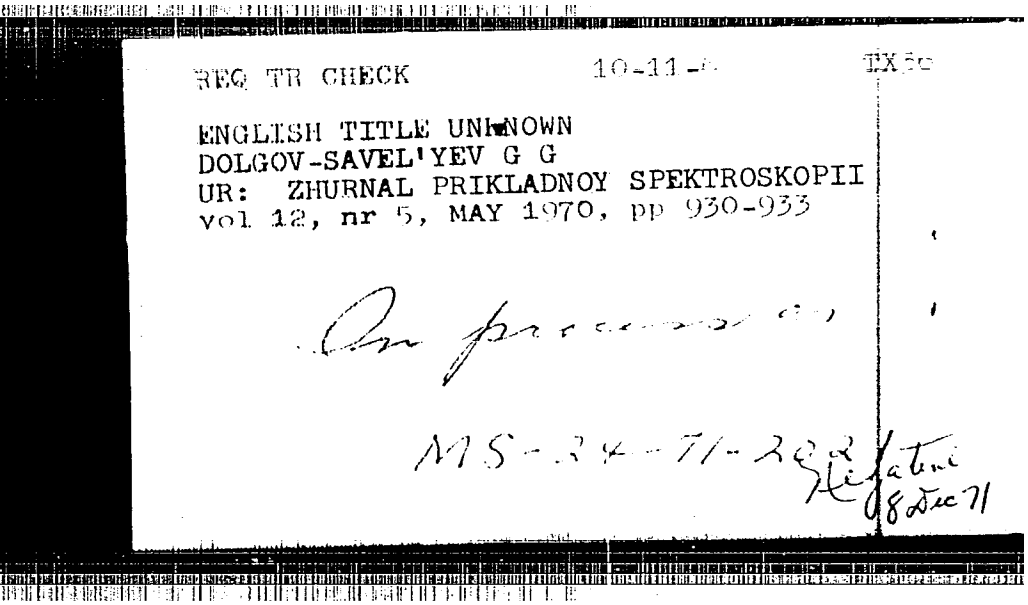
APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Electrically Controlled Deflection of a Light
Beam During its Total Reflection in a
Ferroelectric Electrooptical Crystal,
by V. A. Shamburov, 4 pp,
RUSSIAN, per, Zh. Prikl. Spektr., Vol 12, No 5, 1970
pp 884-887
CIA K 7333

Sept 70

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9



REQ TR CHECK 10-11-

ENGLISH TITLE UNKNOWN
DOLGOV-SAVEL'YEV G G
UR: ZHURNAL PRIKLADNOY SPEKTROSKOPII
vol 12, nr 5, MAY 1970, pp 930-933

MS-34-71-232 18 Dec 71

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

The Sensitivity of Emission Spectral Analysis Using a Laser, by
B. V. Pateleev.
RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii, Vol 12, No 6, 1970, pp 1106-1108
NTC 72-11371-20E
+ NASA TT-F-13,542

June 72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

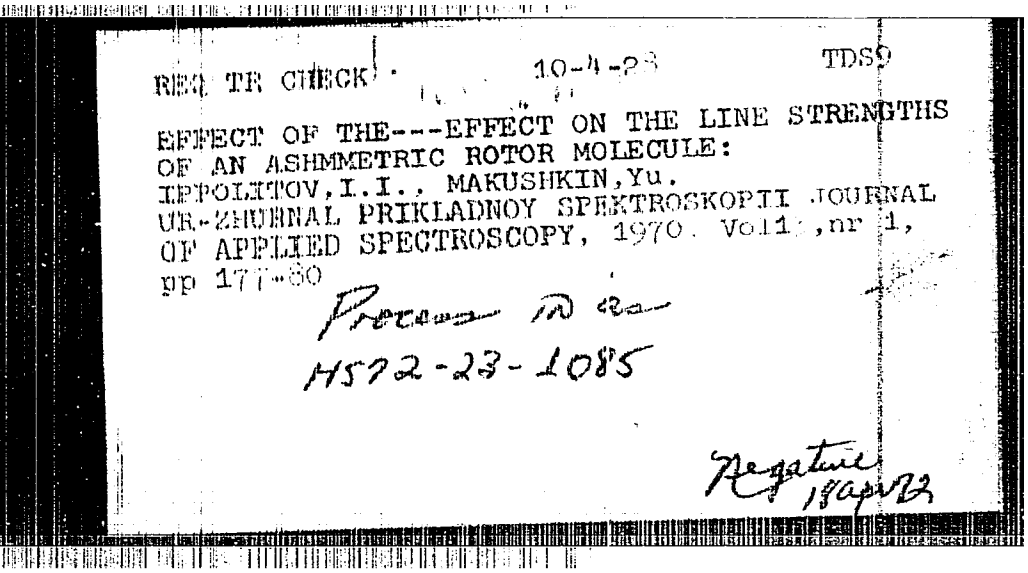
APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Thermal Radiation of Small Spheres, by
F. Kh. Baibulatov.
RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii,
Vol 12, No 6, 1970, pp 1140-1142.
NTC-71-10672-2011
CIA x 7347 4pp

Nov 71

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9



REQ TR CHECK 10-4-23 TDS9

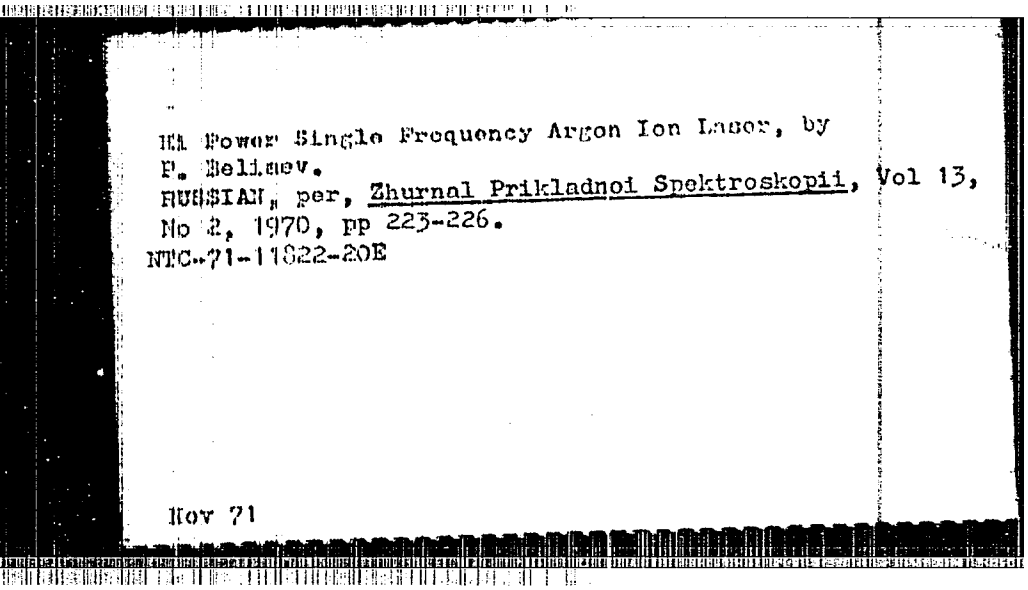
EFFECT OF THE---EFFECT ON THE LINE STRENGTHS OF AN ASHMMETRIC ROTOR MOLECULE:
IPPOLITOV,I.I., MAKUSHKIN,Yu.
UR-ZHURNAL PRIKLADNOY SPEKTROSKOPII JOURNAL OF APPLIED SPECTROSCOPY, 1970. Vol11,nr 1, pp 177-80

Russian
HS72-23-1085

Negative 18apr72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9



HA Power Single Frequency Argon Ion Laser, by
P. Beldaev.
RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii, Vol 13,
No 2, 1970, pp 223-226.
NTC-71-11022-20E

Nov 71

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Spectrum Studies of Mode Synchronization in Injection Lasers, by Kh. Yu. Bakhert.
RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii, Vol 13, 1970, pp 232-237.
FTD 72-14388-20E

Jan 73

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Effect of Spectral Composition of the Pump Source on the Laser Emission of Rhodamine 6G in Alcohol, by A. N. Rubinov, et al.
RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii, Vol 13, 1970, pp 368-371.
NTC 71-14320-20E

Feb 72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

On the Frequency Characteristics of a Ring Gas Laser, by G. B. Butman
RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii, Vol 13, 1970, pp 722-725
FTD 71-16437-20E

mar 72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

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REQ TR CHECK 4-11-20 TX27

INFRARED SPECTROSCOPIC STUDY OF THE HYDROXYL COVERING OF AEROSIL SURFACES
SOBOLEV V A
UR: ZHURNAL PRIKLADNOY SPEKTROSKOPII
1970, vol 13, nr 5, pp 863-865

D N processed

HS-23-72-0236
Signature
8 Dec 71

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REQ TR CHECK 5-10-35 TT11

EQUATION OF BALANCE OF EXCITED STATES FOR A D. C. DISCHARGE PLASMA AT AVERAGE PRESSURES, AND DETERMINATION OF THE PARAMETERS OF LEVEL
KRIVCHENKOVA V S
UR: ZHURNAL PRIKLADNOY SPEKTROSKOPII
1970, vol 13, nr 6, pp 970-974

c/c Faraday Press

In press as

#S-23-71-1979 29Oct71

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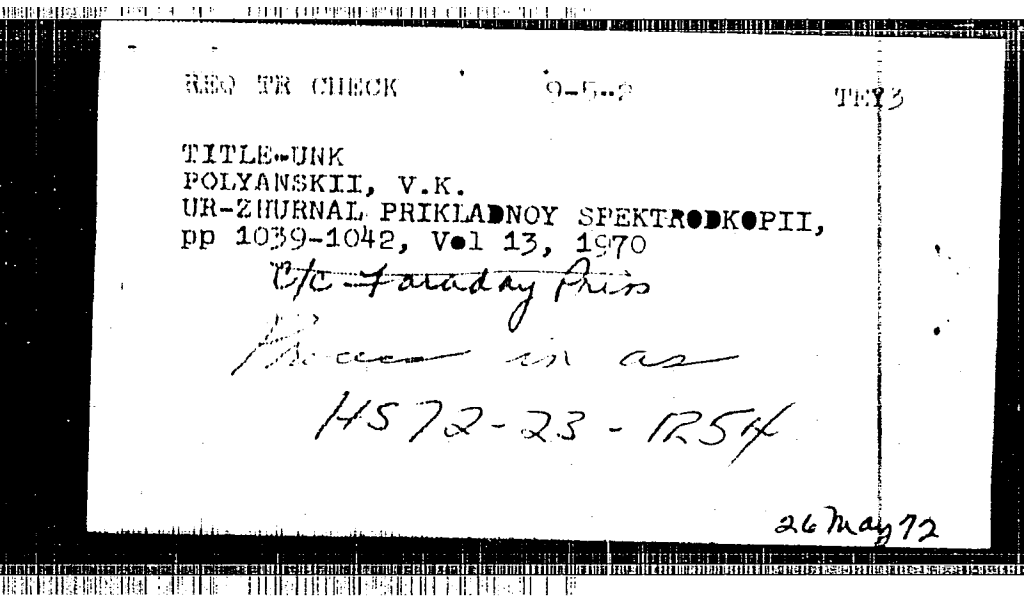

REQ TR CHECK 9-5-?

TITLE-UNK
POLYANSKII, V.K.
UR-ZHURNAL PRIKLADNOY SPEKTROSKOPII,
pp 1039-1042, Vol 13, 1970

C/C-Faraday Phis

H572-23-R54

26 May 72

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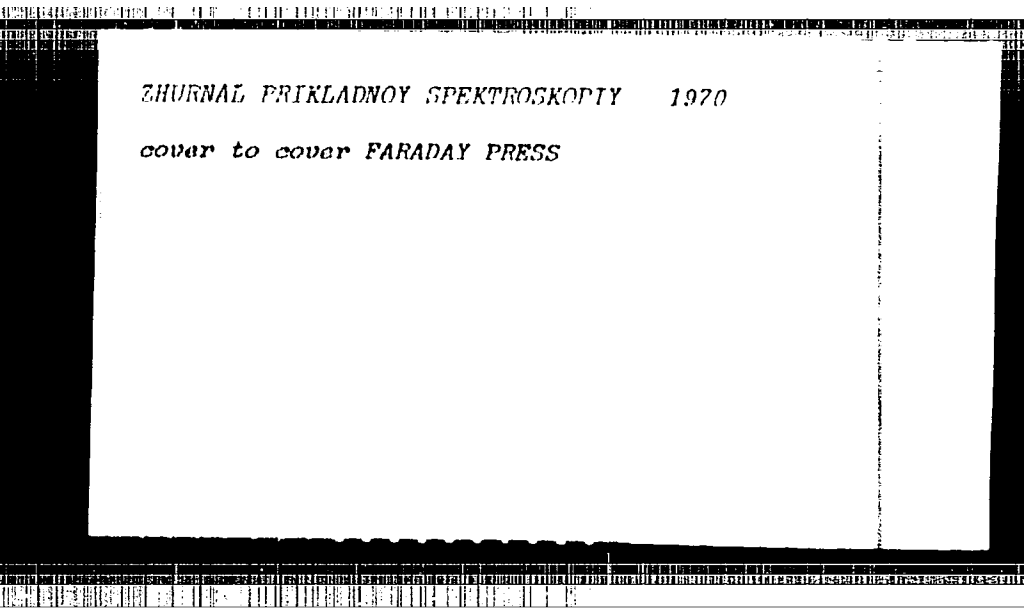

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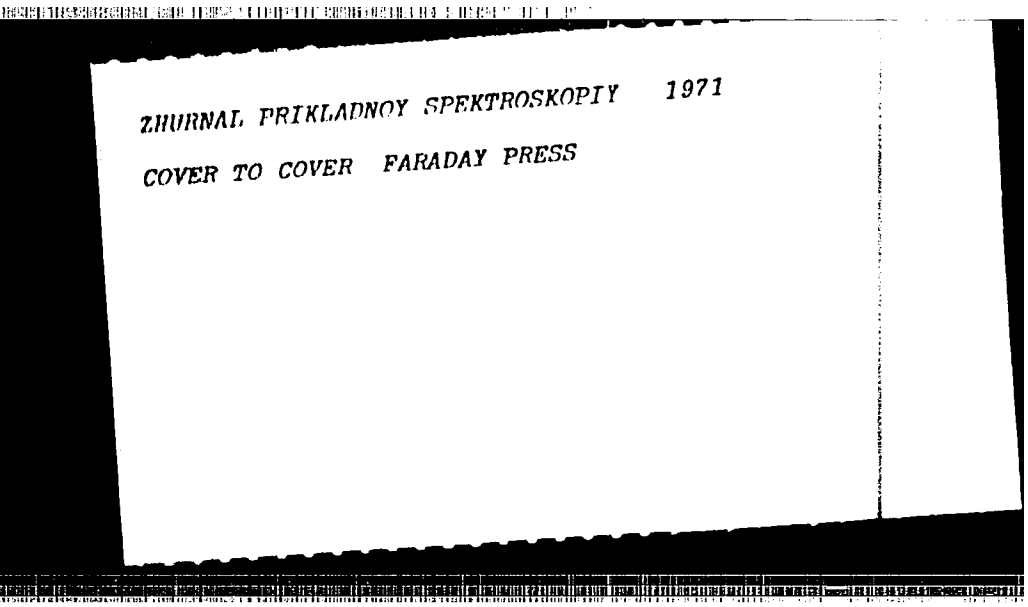

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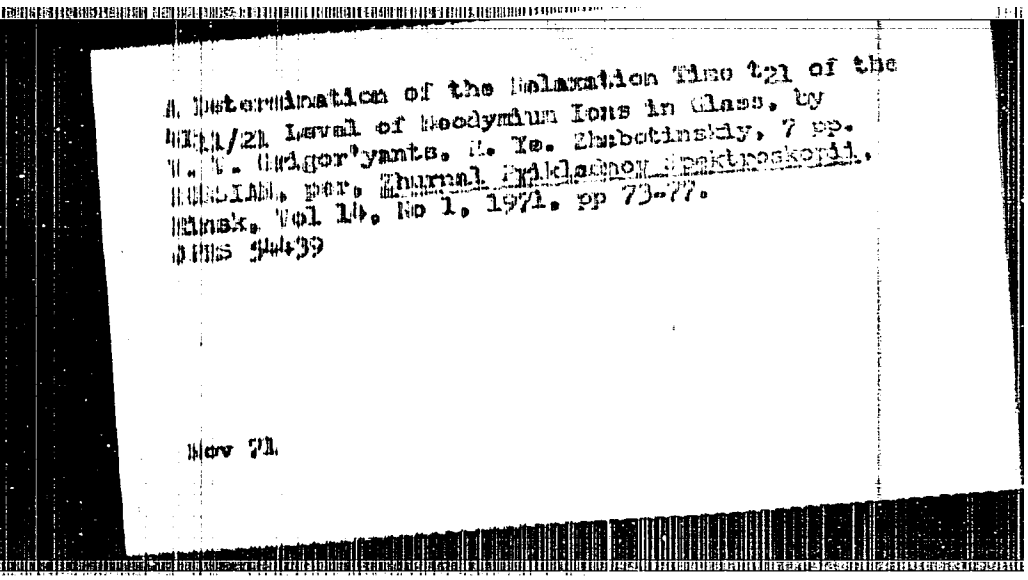

A Determination of the Dalamation Time t2l of the
[illegible]/2l Level of Neodymium Ions in Glass, by
V. V. Grigor'yants, N. Ye. Zhabotinskiy, 7 pp.
[illegible], per. Zhurnal Prikladnoy Spektroskopii,
Minsk, Vol 14, No 1, 1971, pp 73-77.
OTIS 9h439

Nov 71

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Studies on the Fluorescence and Photoconductivity of Crystals and Solutions of Aromatic Hydrocarbons, by S. D. Babenko.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy, Vol 14, No 1, Jan 1971, pp 111-114.
*AFCRL

Jan 72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

The Effective Cross Section of Stimulated Emissions
in Inhomogeneously Broadened Active Media, by
V. V. Grigor'yants, N. L. Gurvich, 6 pp.
RUSSIAN, per. Zhurnal Prikladnoy Spektroskopii,
Minsk, Vol 14, No 1, 1971, pp 154-157.
JPRS 54940

Nov 71

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

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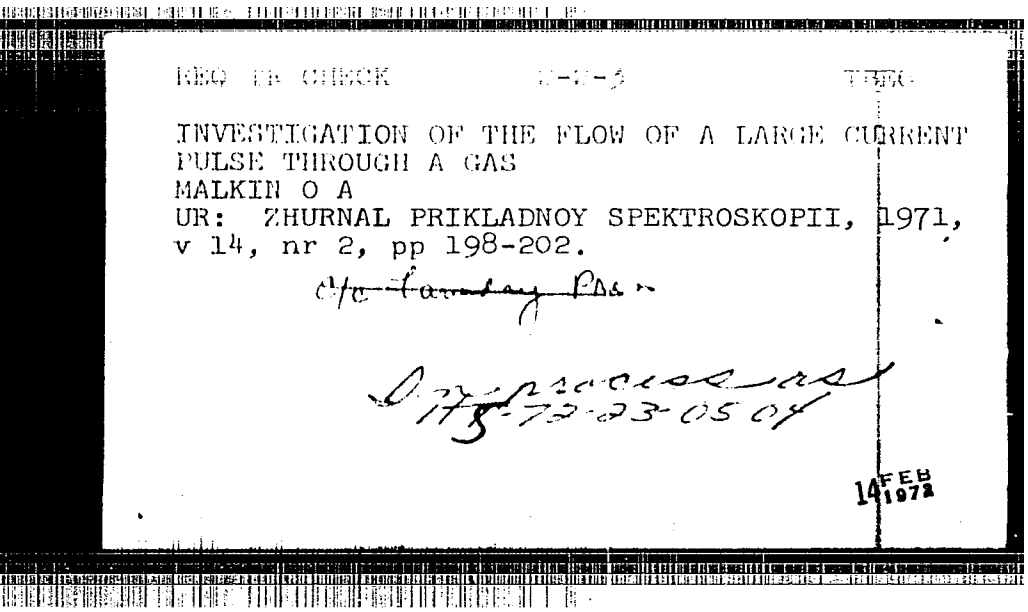

REQ FR CHECK 2-1-3 TRNS

INVESTIGATION OF THE FLOW OF A LARGE CURRENT PULSE THROUGH A GAS
MALKIN O A
UR: ZHURNAL PRIKLADNOY SPEKTROSKOPII, 1971, v 14, nr 2, pp 198-202.

c/o Faraday Pass

Diffraction
1FS-72-23-0504

14 FEB 1972

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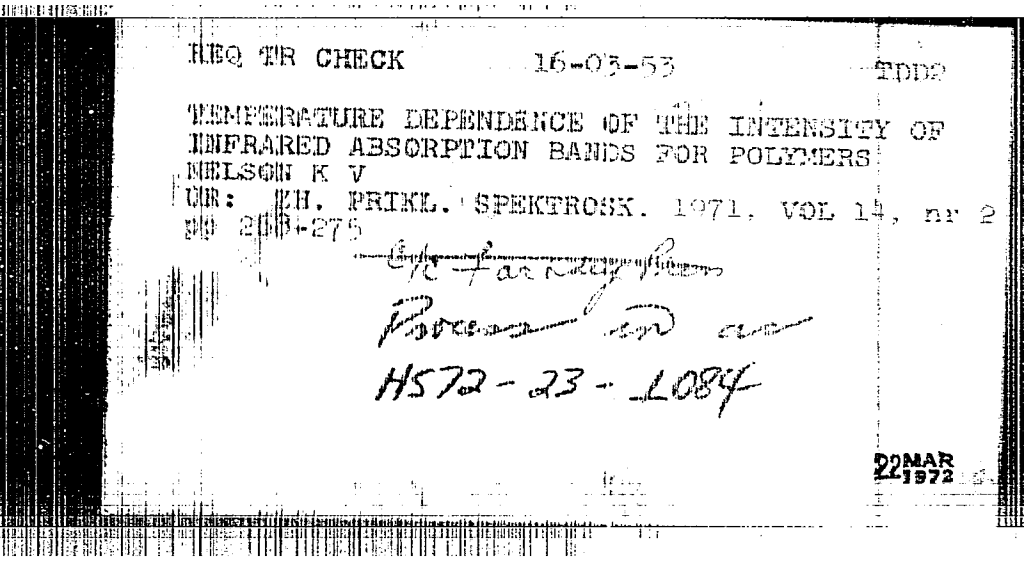

REQ TR CHECK 16-03-53 TDDS

TEMPERATURE DEPENDENCE OF THE INTENSITY OF INFRARED ABSORPTION BANDS FOR POLYMERS
NEILSON K V
CR: ZH. PRIKL. SPEKTROSK. 1971, VOL 14, nr 2
PP 208-275

Fr Farnsworth
Brown ed
HS72-23-L084

22MAR 1972

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

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REQ TR CHECK 4-5-37 TEP7

EFFECT OF A MAGNETIC FIELD ON A RUBY LASER
VALYAVKO, V.V., BOYKO, B.B.
UR-ZHURNAL PRIKLADNOY SPEKTROSKOPII, 1971,
Vol 14, no 2, pp 325-327

c/c Plenum Pres

Process in as

HS72-23-1320

16 May 72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Yu. S. Shakinskiy

Methods for the study of absorption spectra of collodial solutions of considerable thickness. 9 pp.
ZH. PRIKL. SPEKTROSKOPII, Vol 14, No 3, 1971
NASA TT F 14,497

feb 73

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

V. F. Voronin

Correlation Between the Internal Differential Quantum Effeciency of Generation and the Near Field Pattern of Injection Lasers.
RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii, Vol 14, No 3, 1971, pp 531-533
HTC 72-12749-20E

sept 72

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Use of a Laser for Atomic Absorption Analysis,
by E. P. Krivchikova
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 14, No 4, 1971, pp 592-596
NASA TT F 14,132

mar 72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

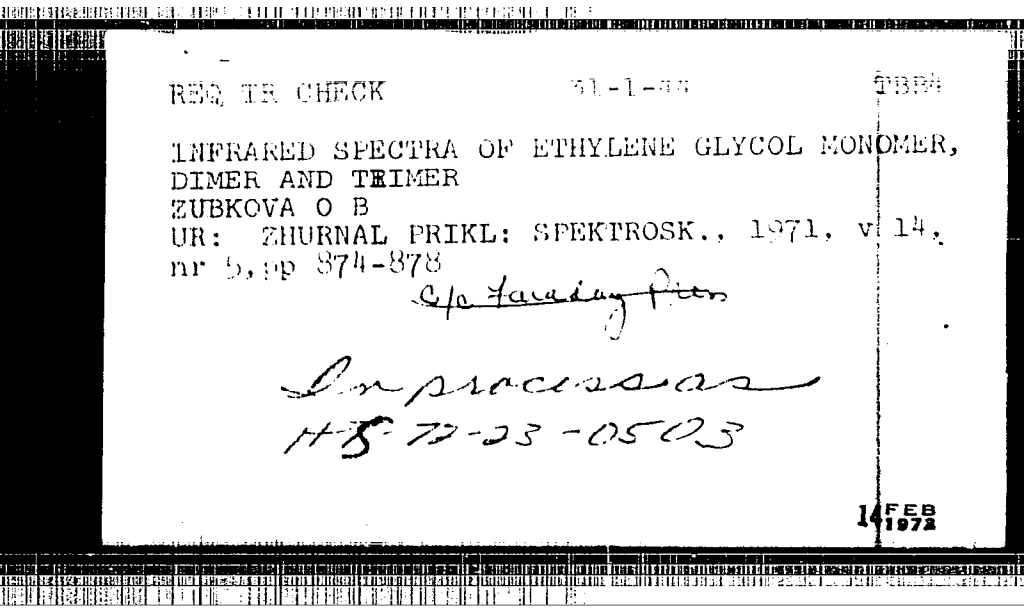
A. A. Petrov G. V. Skvortsova

Use of a laser for spectral-isotopic determination of volumetric and surface content of oxygen in metals. 12 pp.
RUSSIAN, per, Zh. Prik. Spektroskoppi, Akad Belorussk SSR (Minsk), Vol 14, No 5, 1971, pp 793-800.
NASA TT F 14,148

July 72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9



REQ TR CHECK 31-1-[illegible] TBM

INFRARED SPECTRA OF ETHYLENE GLYCOL MONOMER, DIMER AND TRIMER
ZUBKOVA O B
UR: ZHURNAL PRIKL: SPEKTROSK., 1971, v 14, nr 5, pp 874-878

c/o Faraday Soc

Impracticable
H-B 72-23-0503

14 FEB 1972

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

I. A. Derzugin

Study of the influence of a variable magnetic field on the parameters of a plasma and the radiation of a gas laser. 5 pp.
RUSSIAN, per, Zhurnal Prikladnoy spektroskopii, Vol 14, No 6, 1971, pp 922-925
AIR/ATD-AT-23-795-72

sept 72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

M. A. Yel'yashevich

Study of the Physical State of Breakdown Products by Laser Action on Condensed Media.
RUSSIAN, per, Zhurnal prikladnoy spectroskopii, Vol 15, No 2, August 1971, pp 200-204.
NASA TT F 14,476

Oct 72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

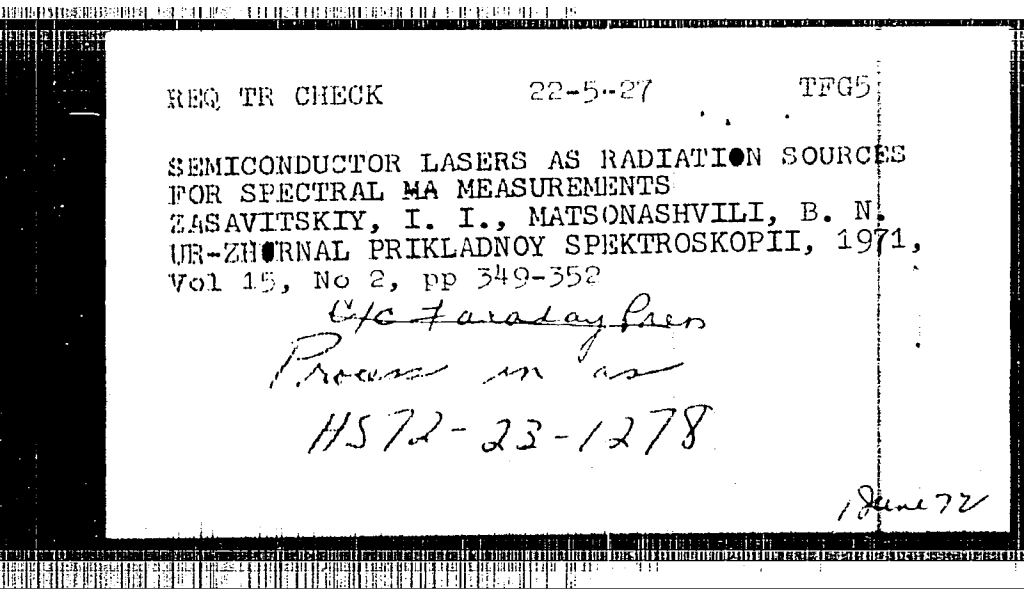
APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Relaxation Processes in Photosensitive Glasses, by
V. K. Zakharov.
RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii,
Vol 15, 1971, pp 223-228.
NTC 72-14322-20F

Jan 73

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9



REQ TR CHECK 22-5-27 TFG5

SEMICONDUCTOR LASERS AS RADIATION SOURCES FOR SPECTRAL MA MEASUREMENTS
ZASAVITSKIY, I. I., MATSONASHVILI, B. N.
UR-ZHURNAL PRIKLADNOY SPEKTROSKOPII, 1971, Vol 15, No 2, pp 349-352

O/C Faraday Lab
Request in as
HS72-23-1278

10 June 72

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

On the Nature of the Removal of a Substance Under the Effect of Laser Radiation on Material With Different Thermophysical Properties, by M. V. Orekhov. RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii, Vol 16, 1972, pp 193-199.
NTC 72-14236-20E

Jan 73

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Calculation of Scintillation Spectrum Distortion as a Result of Pulse Superposition, by A. M. Zaitseva.
RUSSIAN, per, Zhur Prikład Spektrosk, Akad Nauk, BSSR, Vol 39, 1966, pp 537-539.
Windscale Tr 311 (Loan Only)

327,948

Sci - Physics

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Chemical and Vibrational Relaxation in Supersonic Carbon Dioxide Flows, by
N. I. Yushchenkova. 15 pp.
RUSSIAN, per, Zh. Prikl. Spektroskopiy, Akad. Nauk Belorussk. SSR (Minsk), Vol 11, Sep 1969, pp 417-424.
NASA TT F 12922

sci/phy
jan 71

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

The Sensitivity of Emission Spectral Analysis Using a Laser, by B. V. Petalonov. 8 pp. RUSSIAN, per, Zh. Prikl. Spektroskopii, Akad. Nauk Belorussk SSR, Vol 12, No 6, 1970, pp 1105-1108.
NASA TT-F-13536

Aug 71

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(Journal of Structural Chemistry - bimonthly)
Translation begins with 1960, Vol. 1
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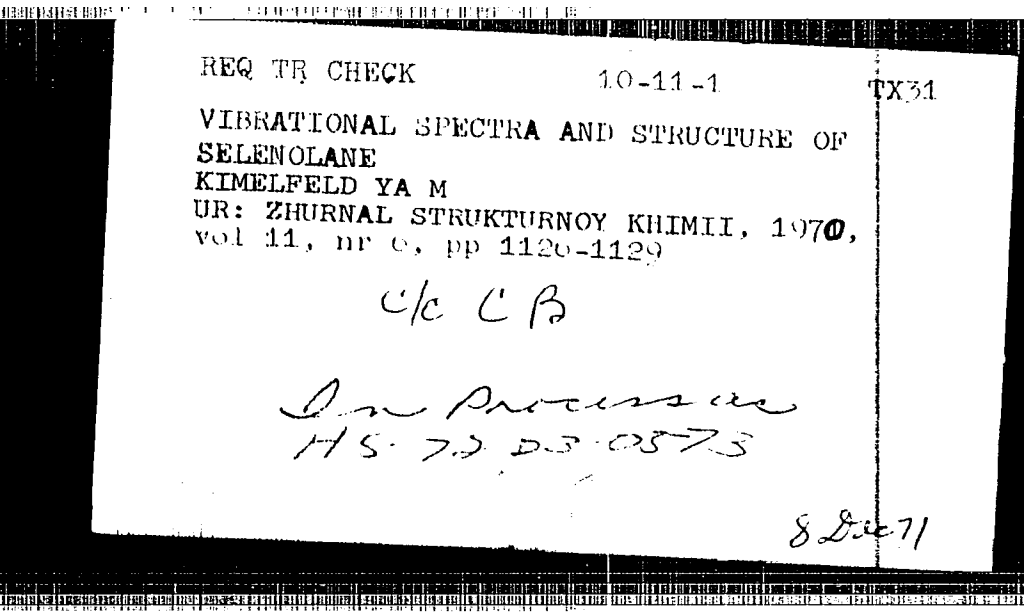

REQ TR CHECK 10-11-1 TX31

VIBRATIONAL SPECTRA AND STRUCTURE OF SELENOLANE
KIMELFELD YA M
UR: ZHURNAL STRUKTURNOY KHIMII, 1970, vol 11, nr 6, pp 1126-1129

C/C CB

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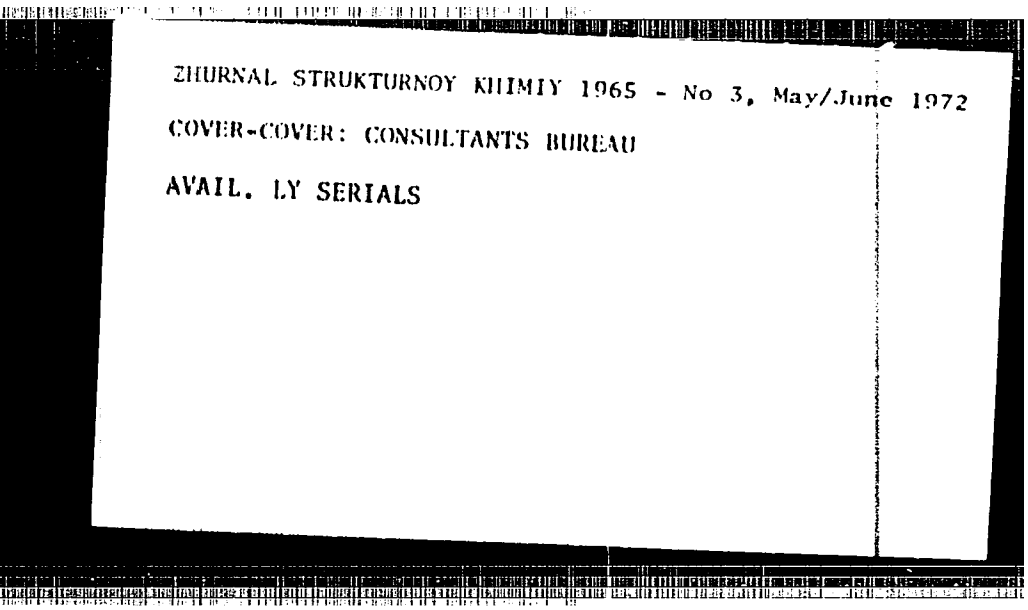

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9

Structure of Various Modifications of Pyrolithic Carbon, by A. S. Fialkov, A. I. Bavar, B. N. Smirnov, M. I. Chayhun, N. M. Sidorov, S. M. Rabinovich, and I. M. Turkovskiy, 6 pp. RUSSIAN, per, Zhurnal Strykturnoy Khimii, Vol 6, No 1, Jan-Feb 1965, pp. 66-69, Article 1. JPRS 34373

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Sci-M/M
Mar 66

296,697

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7 Oct 65

O Pororotnykh izomerakh molekuly izoprena

By: S. Dzhossati, V.I. Tiulin & et al

From: ZHURNAL STRUKTURNOI KHIMII Vol 6, No 3
1965, pp 465-467 (3 pp)

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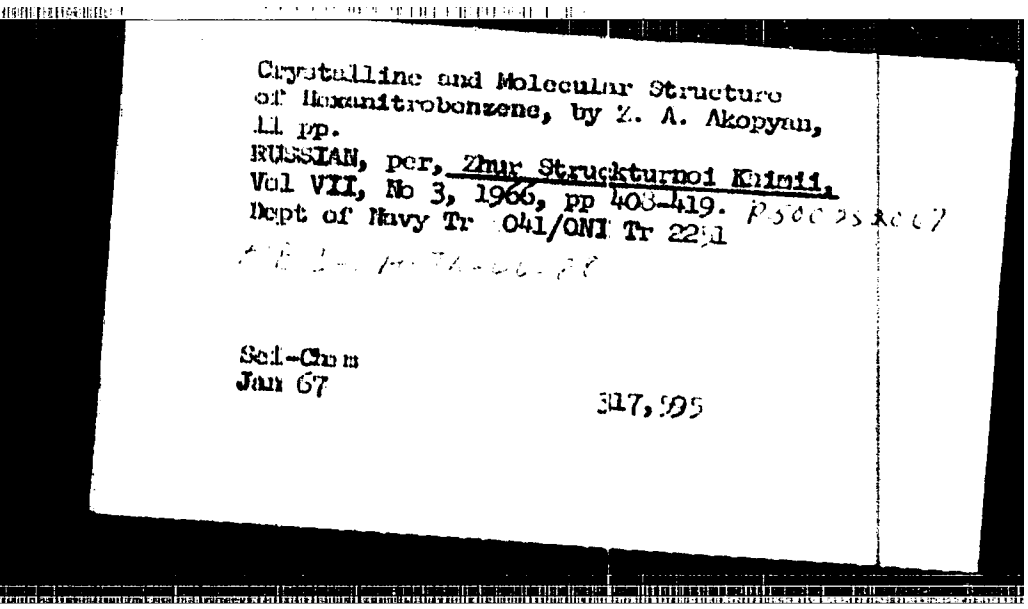

Crystalline and Molecular Structure of Hexanitrobenzene, by Z. A. Akopyan, 11 pp.
RUSSIAN, per, Zhur Strukturnoi Khimii, Vol VII, No 3, 1966, pp 408-419.
Dept of Navy Tr 041/ONI Tr 22?1

Sel-Chem
Jan 67

317,95

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000301010059-9